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In a TFT active matrix electro-optical device, the pixel-aperture ratio is increased while a pixel electrode and a semiconductor layer are interconnected, and a high resolution image can be displayed, with a relatively simple structure. For that purpose, the electro-optical device includes a TFT array substrate (10) provided with a TFT (30), a data line (6a), a scanning line (3a), a capacitor line (3b), and a pixel electrode (9a). The pixel electrode and the TFT are electrically connected to each other interconnected by a first barrier layer (80a) through a contact hole (8a) and a contact hole (8b). A second barrier layer (80b) is formed broader than the data line, and a portion of the second barrier layer overlaps the pixel electrode, and thus the pixel-aperture region is delimited.